



Source: ESA ESRIN

Liaison Report GSDI Association

An update on selected activities since WGISS-43

With Annex on WWEC2017 prepared by migueldelcastillo@live.com

Dr. Gábor Remetey-Fülöpp Liaison, GSDI-WGISS Past Secretary-general, HUNAGI (1994-2015)

Outline



- GSDI at the 10thISDE&Locate17 Conference
- GSDI at the Del Bianco City Smart Conference
- GSDI involvement in the UN 2030 Agenda
 - The GEO EO4SDGS Survey
 - GSDI involvement in country level SGDs action the case of Hungary
 - Geospatial Information for SDGs
 - EO for SDGs
 - UN GGIM for SDGs
- WWEC2017 Helsinki Conference
- Acknowledgements Liaison farewell

GSDI at the 10th ISDE & Locate17 Conference







a joint event of ISDE and Australia's geospatial community

Sydney, April, 2017

- On behalf GSDI, MoU of 'Digital Belt and Road' (DBAR) Alliance was signed by ExCom member A. Rajabifard
- He delivered a plenary presentation on UN GGIM's Academic Network
- Further GSDI presentation with coauthors P. Hogan of NASA and Prof M. Brovelli of Politechnico di Milano was given by GSDI's WGISS Liaison
- Follow-on action: visiting GSDI ExCommember Prof. and Director Abbas
 Rajabifard in his Centre of Spatial Data Infrastructures and Land Administration in the University of Melbourne



DBAR impacts 65 countries and 4.3 bn people

ISDE10/Locate17 Plenary Speakers

- Chair: Dr Stuart Minchin, Geoscience A.
- Greg Scott, Inter-Regional Advisor UNGGI
 Prof. Abbas Rajabifard, Chair
- Denise McKenzie, Vice Chair, Private Sec
- Dr Walter Scott, DigitalGlobe USA
- Dr Peter Woodgate, Australia and New Ze
- Glenn Cockerton, Spatial Vision
- Prof. GUO Huadong, Institute of Remote Academy of Sciences



How Open Source Virtual Globe is supporting the SDGs —
The Case of NASA World Wind
Gabor Remettey-Fülöpp, Member of HUNAGI, ISDE, GSDI and NASA

GSDI delegates at ISDE10/Locate17

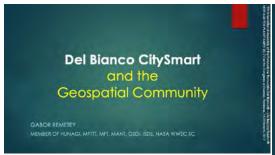
GSDI at the Del Bianco City Smart Conference







Florence, March, 2017



GSDI contributionin Florence







Courtesy of Miguel Del Castillo Hoffman and Gabrie Militao Lopes

NASA World Wind Manager Patrick Hogan at the 1st FOSS4G Europe Conference

GSDI involvement in the UN 2030 Agenda





as of August, 2017

GSDI response for the recent survey of GEO EO4SDGs Working Group directed by Argyro Kavvada of Booz-Allen&Hamilton at NASA HQ:

Contributing Organization	Member/PO affiliation	Organization category	Type of contribution	Contribution details	Source of funding	Value (actual or estimated)
Global Spatial Data Infrastructure Association (GSDI)	PO – https://www.e arthobservatio ns.org/pos.php	International Organisation	In-kind labour And travel costs	Below the table	GSDI reserve funds for Strategic Projects and volunteers' in- kind contributions	\$ 5000

Contribution details: Awareness raising, Engaging stakeholders, Capacity building inc. webinars and workshops, Methodology development, UN-GGIM: multichannel contribution in the UN 2030 Agenda context on country, regional and global level, Sharing best practices (SDI4SDGs, Marine SDI Best Practice, INSPIRE, Global NSDI Index Project, open data, open source), Contribute to CEOS WGISS and GEO plenaries, Support SDGs accomplishment by SDI (i.e.: spatial data, services, applications toward spatial (location) knowledge infrastructure, Small Grants Programme, Multiple Agency Cooperation, Networking

GSDI involvement in the UN 2030 Agenda



GSDI in country level awareness raising- the case of Hungary

• Individual GSDI and MFTTT members' collaboration. A series of presentation in the subject "UN 2030 Agenda – the challenges for the geospatial community" to engage stakeholders. Speakers: Prof. Szabolcs Mihály and Tamás Palya (past and present INSPIRE delegate of Hungary). Co-author: G. Remetey, member of GSDI Association



- Day of the European Surveyors and Geoinformatics MFTTT / Ministry of Agriculture in Budapest, March 22 Participants: 180
- GIS Open 2017 Óbuda University Alba Regia Technical Faculty, Institute of Geoinformatics.
 Székesfehérvár. April 11-13 Participants: over 150
- 8th Geoinformatics Conference and Exhibition Debrecen, May 25-26 Participants: 120
- XVIII th Meeting of Surveyors of the Hungarian Technical Scientific Society of Transylvania (EMT) Băile Tuşnad, May 18-21 Participants: 140
- 31. Roving Conference of the Hungarian Society of Surveying, Mapping and Remote Sensing. Szekszárd, July 6-8. Participants: 170
- Mini-conference devoted to the 70th Anniversary of Prof. Béla Márkus. Óbuda University Alba Regia Technical Faculty, Székesfehérvár, July 11 Participants: 45

Ahead:

 Earth Observation for SDGs at Fény-Tér-Kép Conference, Gárdony, October

SSDI update in nutshel

GSDI involvement in the UN 2030 Agenda

Geospatial Information for SDGs



GEO-SPATIAL Information Science - special issue: Role of EO/Geospatial data, services and applications in the SDGs

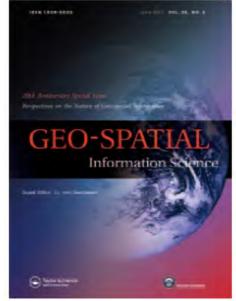
SD and GI: a strategic framework integrating global policy agenda into national geospatial capabilities

Greg Scott of GGIM at the UN Statistical Division and Prof. Abbas Rajabifard, ExCommember of GSDI, Chair of the Academic Network of GGIM made an in-depth description how the spatial data infrastructure and related technologies could support the monitoring and reporting of SDG indicators and targets in close interagency collaboration.





Greg Scott (top) and Prof. Abbas Rajabifard at the ISDE10/Locate17



Cover page of the GSIS guest edited by Prof. John van Genderen)

GSDI update in nutshel

GSDI involvement in the UN 2030 Agenda EO for SDGs



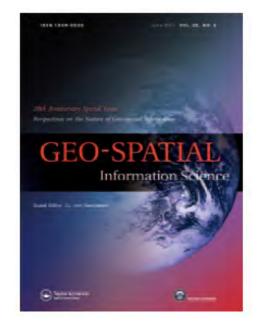
GSDI is observing member of the EO4SDGS working Group and participates its telecons frequently

Earth observation in service of the 2030 Agenda for Sustainable Development

In a recent article published in the Geo-Spatial Information Science (GSIS) there is a description how the EO data, infrastructure and related services, applications are capable to contribute to the accomplishment of the SDGs from local to global.

The paper was written by Katherina Anderson, Barbara Ryan, William Sonntag of GEO Sec as well as Argyro Kavvada and Lawrence Friedl of the EO4SDGS team.

These resources are widely distributed In frame of the awareness raising actions GSIS



Awareness raising on CRCSI publication:



GSDI involvement in the UN 2030 Agenda UN GGIM for SDGs





July, August, 2017

- Dave Lovell, president of GSDI Association, Chair of the UN GGIM Geospatial Societies took part on the Workplan/Way Forward Forum organised by the UN GGIM Academic Network in the UN HQ in NYC.
- GIM International interviewed GSDI President Dave Lovell under the title "Maximising the Benefit of Geospatial Information"
- Former GSDI President Abbas Rajabifard chair of the strategic knowledge, research and training arm of UN GGIM moderated the Forum's session devoted to SDGs' major drivers, opportunities and challenges
- In the Enablement and Requirements session Prof. Harlan Onsrud, former Executive Director of GSDI highlighted the legal and policy requirements

WWEC2017 Helsinki Conference

- The 5th NASA Europa Challenge
- Hosted by the Digital Forum of Finland at the Aalto University and Nokia.
- 12 of 21 teams were present
- 1st price: World Weather and AgroSphere
- Best support teams as rated by all other teams were also awarded
- OSGeo (Suchith Anand) and GSDI (G.Remetey) submitted the special Award offered by GODAN for two winners:
 - AgroSphere climate change impact analysis and Aware Algorithmic Wildfire Analysis and pREdiction
- The participants visited nanosat labs (SAR) and hyperspectral constellation) as start-up companies and technology-businessdesign based innovation clubs. After the mentor-guided workshop a high level conference forum provided frame for the award ceremony.



Espoo, August 28-31, 2017

Open source, virtual globe based application developments



Acknowledgements



- Special thanks to Viktor Pusztai who invited HUNAGI and me to co-organise the WGISS-23 and CVWG Meeting in Budapest and Prof. Harlan Onsrud, Ivan Petiteville and Ken McDonalds for their GSDI-CEOS WGISS liaison initiative, which I tried to serve doing my best in the past 12 years.
- Since Spring 2006 I participated 16 WGISS Meeting and contributed 4 times remotely. I reported for HUNAGI and GSDI also using a frequently visited blog.
- My appreciation to Co-Chairs of WGISS, the Presidents, former Executive Director and present Secretary General of GSDI Association for their support and encouragements to keep the GSDI-CEOS WGISS link live and useful. This community is really close to my hearth and I learned a lot.





Image sources: NASA, ESA ESRIN and Internet

Thank you for your cooperation!

Thank you for your attention!

WorldWind Europa Challenge 2017

Finalist Projects

Aims

- Academic event
- 5th year of the Challenge
- Open Source Web Applications
- Particular community needs for each team
- Urban livability
- Sharing solutions



City Smart World Wise (6th place) Wind Energy 4c*

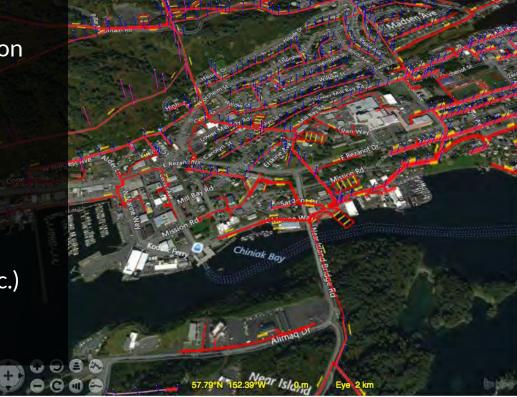
- Urban infrastructure visualization for an entire community (city of Kodiak, Alaska) Distribution
- Renewable energy, water purification and treatment, agricultural development,
- Community resource mapping (health, ammenities, education, transportation, emergencies, etc.)

-Kodiak Small Transformers

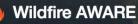
-Kodiak Substations

-Kodiak Fuses

-Kodiak Poles With Guy Cable



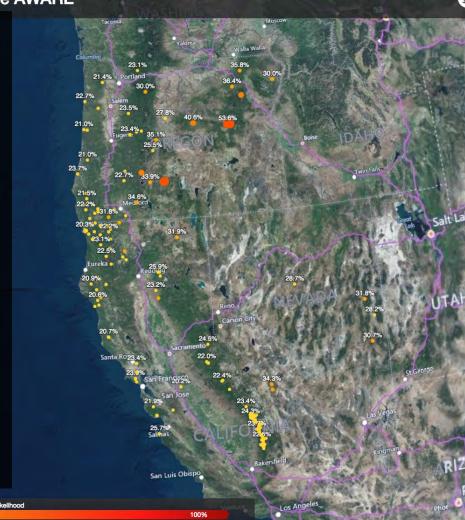




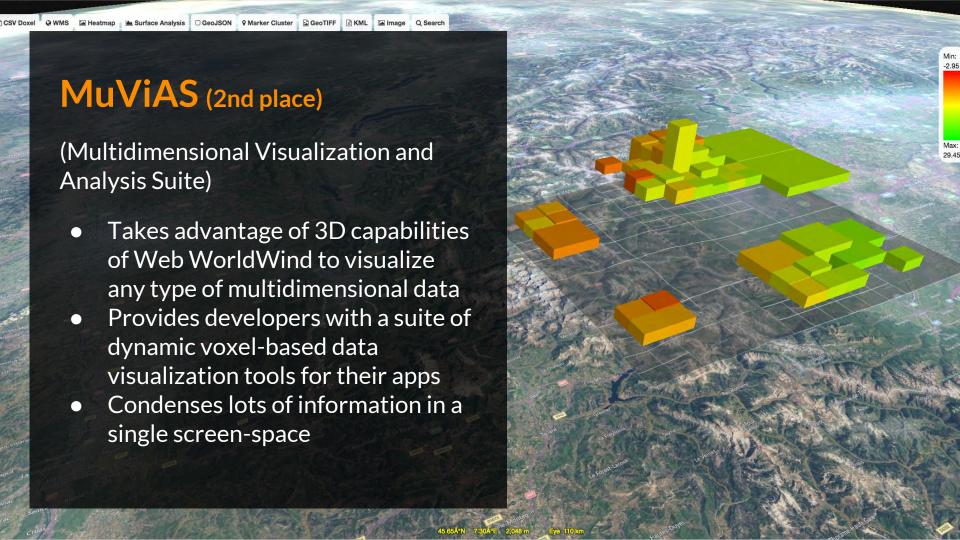
AWARE (3rd place)

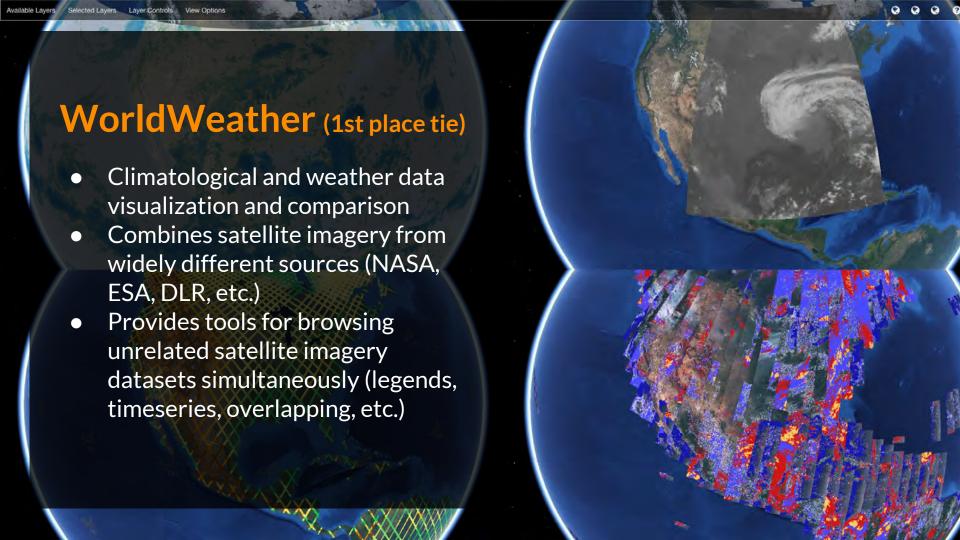
(Algorithmic Wildfire Analysis and pREdiction)

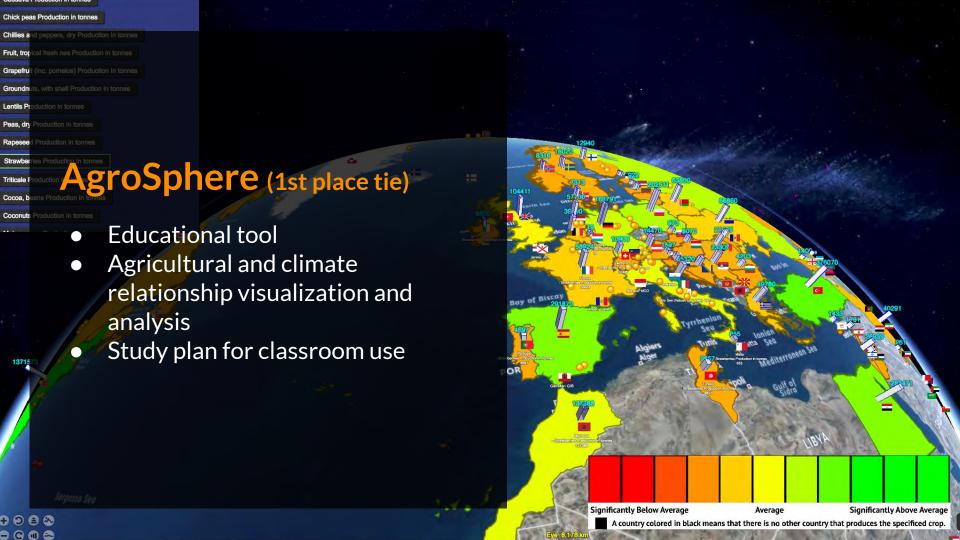
- Wildfire forecasting on available sensor stations
- Wildfire history probability analysis
- Machine learning-based forecasting





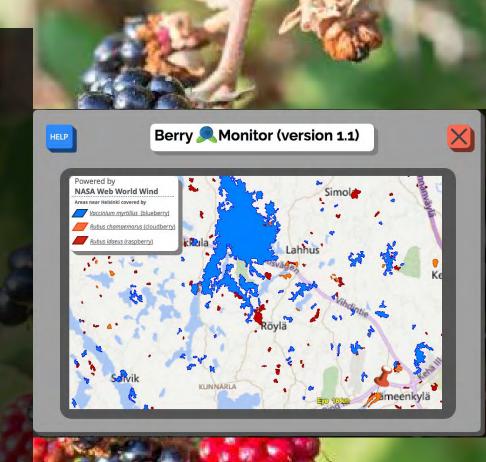






Berry Monitor (Miguel's honorific mention)

GIS wild berry monitoring





Resources

WorldWind Europa Challenge 2017 Website:

http://eurochallenge.como.polimi.it/projects2017

City Smart World Wise:

http://eval.cs.aworldbridgelabs.com/

3D OpenStreetMap:

http://osm.eoapps.eu/

Smart Pollen Monitoring:

http://smartpollenmonitor.org/

AWARE:

http://wildfireaware.co.uk/

Berry Monitor:

https://www.berrymonitor.com/

WorldWeather:

https://github.com/NASAWorldWindResearch/WorldWeather/wiki

AgroSphere:

https://github.com/NASAWorldWindResearch/AgroSphere/wiki

MuViAS:

http://muvias.eoapps.eu/